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IEEE CNF	IEEE Conference Proceeding
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1. **Inter-layer radio resource management for hierarchical cell structures in I**
Noubir, G.;
Global Telecommunications Conference, 1998. GLOBECOM 98. The Bridge tc Integration. IEEE
Volume 4, 8-12 Nov. 1998 Page(s):2483 - 2488 vol.4
Digital Object Identifier 10.1109/GLOCOM.1998.775982
AbstractPlus | Full Text: PDF(324 KB) **IEEE CNF**

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Volume 1, 5-9 Oct. 1998 Page(s):157 - 161 vol.1
Digital Object Identifier 10.1109/ICUPC.1998.732821
AbstractPlus | Full Text: PDF(556 KB) **IEEE CNF**

3. **A software radio architecture for linear multiuser detection**
Seskar, I.P.; Mandayam, N.B.;
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Volume 17, Issue 5, May 1999 Page(s):814 - 823
Digital Object Identifier 10.1109/49.768197
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4. **A novel link proportional dynamic channel assignment for TDD-CDMA sy directional antennas**
Li-Chun Wang; Yi-Cheng Chen;
Networking, Sensing and Control, 2004 IEEE International Conference on
Volume 1, 21-23 March 2004 Page(s):164 - 169 Vol.1
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5. **Sl/sup 2/R-DMA: self-organizing inter- and intra-site interference reductio GERAN networks**
Ball, C.F.; Ivanov, K.; Mullner, R.; Winkler, H.;
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7. **Capacity improvement in UMTS by dedicated radio resource managemen**
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8. **WIPPET, a virtual testbed for parallel simulations of wireless networks**
Panchal, J.; Kelly, O.; Lai, J.; Mandayam, N.; Ogielski, A.T.; Yates, R.;
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26-29 May 1998 Page(s):162 - 169
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9. **Interference radius in PCS radio resource management simulations**
Liljenstam, M.; Ayani, R.;
Simulation Conference Proceedings, 1998. Winter
Volume 2, 13-16 Dec. 1998 Page(s):1629 - 1637 vol.2
Digital Object Identifier 10.1109/WSC.1998.746039
AbstractPlus | Full Text: PDF(700 KB) IEEE CNF

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1 Radio resource management: Using case-based reasoning in traffic pattern recognition for best resource management in 3G networks
Soamsiri Chantaraskul, Laurie Cuthbert
October 2004 **Proceedings of the 7th ACM international symposium on Modeling, analysis and simulation of wireless and mobile systems**
Full text available: pdf(324.42 KB) Additional Information: full citation, abstract, references, index terms

With the underlying W-CDMA technique in 3G networks, resource management is a very significant issue as it can directly influence the system capacity and also lead to system QoS. However, the resource can be dynamically managed in order to maintain the QoS according to the SLA. In this paper, CBR is used as part of an intelligent-based agent management system. It uses information from previously managed situations to maintain the QoS in order to meet the SLA. The results illustrate the performan ...

Keywords: 3G resource management, intelligent agent and case-based reasoning, service level agreement

2 Call admission policies based on calculated power control setpoints in SIR-based power-controlled DS-CDMA cellular networks
Derong Liu, Yi Zhang, Sanqing Hu
July 2004 **Wireless Networks**, Volume 10 Issue 4
Full text available: pdf(225.46 KB) Additional Information: full citation, abstract, references, index terms

In this paper, we develop call admission control algorithms for SIR-based power-controlled DS-CDMA cellular networks. We consider networks that handle both voice and data services. When a new call (or a handoff call) arrives at a base station requesting for admission, our algorithms will calculate the desired power control setpoints for the new call and all existing calls. We will provide necessary and sufficient conditions under which the power control algorithm will have a feasible solution. T ...

Keywords: CDMA, call admission control, cellular networks, power control, wireless networks

3 The Benefits of Load Sharing when Dimensioning Networks
Susan Lincke-Salecker
April 2004 **Proceedings of the 37th annual symposium on Simulation**

Full text available: pdf(147.90 KB) Additional Information: full citation, abstract

With third and fourth generation (4G) wirelesstechnology, operators may manage multiple wirelessnetworks, including cellular networks of differentgenerations, frequencies and cell sizes; potentiallymultiple wireless LAN networks operating at differentdata rates, and possibly satellite and other networks.Architectural studies on integrated heterogeneousnetworks propose that a Common Radio ResourceManager allocate sessions to wireless networks, based onservice requirements and loading. This idea h ...

4 QoS performance bounds and efficient connection admission control for heterogeneous services in wireless cellular networks

Dongmei Zhao, Xuemin Shen, Jon W. Mark

January 2002 **Wireless Networks**, Volume 8 Issue 1

Full text available: pdf(277.81 KB) Additional Information: full citation, abstract, references, index terms

Quality-of-Service (QoS) performance and connection admission control (CAC) for heterogeneous services in wireless multiple access networks are investigated. The heterogeneous services include constant bit rate (CBR), variable bit rate (VBR) and available bit rate (ABR) services. Multiple access control is handled by a polling-based scheme with non-preemptive priority. Tight delay variation (jitter) bounds for CBR connections and delay bounds for VBR connections are derived. A CAC scheme based o ...

Keywords: Quality-of-Service, cellular networks, connection admission control, multiple access control, performance bound

5 Power control based QoS provisioning for multimedia in W-CDMA

Özgür Gürbüz, Henry Owen

January 2002 **Wireless Networks**, Volume 8 Issue 1

Full text available: pdf(247.47 KB) Additional Information: full citation, abstract, references, index terms

Third generation wireless communication systems will support multimedia, and W-CDMA will be the common air interface technology. Due to the interference limited nature of CDMA, power is the main resource of the network, and power control is a means of resource management. In this article, we introduce Dynamic Resource Scheduling (DRS) as a framework which employs power control for QoS provisioning of multimedia traffic in W-CDMA. In DRS, we propose the application of optimal power assignment to ...

Keywords: WCDMA, power control, wireless QoS

6 Optimal channel assignment strategies for forced channel hopping in CDPD systems

Chris Jedrzycki, Victor C. M. Leung

March 2000 **Mobile Networks and Applications**, Volume 5 Issue 1

Full text available: pdf(162.99 KB) Additional Information: full citation, abstract, references, index terms

To provide an acceptable call blocking probability in circuit-switched cellular networks, such as the Advanced Mobile Phone System (AMPS) networks, a significant fraction of the channel capacity in each cell is normally unused. This "free" capacity can be effectively used for packet data transmissions that yield to voice traffic when necessary. Cellular Digital Packet Data (CDPD) is a packet-switched data service which may share radio channels with the AMPS service on a secondar ...

7 Link and physical layer issues: Medium access and radio resource management for ad hoc networks based on UTRA TDD

Matthias Lott, Rüdiger Halfmann, Egon Schultz, Markus Radimirsch

October 2001 **Proceedings of the 2nd ACM international symposium on Mobile ad hoc networking & computing**

Full text available: pdf(1.10 MB) Additional Information: full citation, abstract, references, citings, index terms

The goal of the FleetNet project is to develop an air-interface for inter-car communication and road telematics. For the raido interface, the framework of the UMTS Terrrestrial Radio Access Time Division Duplex (UTRA TDD) air-interface shall be used with modifications. This paper introduces a concept for the air-interface, highlights the challenges for its use in an ad hoc network with rapidly changing topology and offers a description as well as an evaluation of the required changes within the ...

Keywords: UTRA-TDD, ad hoc network, medium access control, multihop, performance, radio resource management

8 Radio resource management: A wireless traffic probe for radio resource management and QoS provisioning in IEEE 802.11 WLANs

Mark Davis

October 2004 **Proceedings of the 7th ACM international symposium on Modeling, analysis and simulation of wireless and mobile systems**

Full text available: pdf(451.50 KB) Additional Information: full citation, abstract, references, index terms

The emergence of real-time services such as voice over IP (VoIP) and video streaming, imposes stringent requirements on the performance of a network if quality of service (QoS) targets are to be achieved. In the case of wireless networks, some form of radio resource management (RRM) is typically required to allocate the available resources among the contending stations in accordance with their needs and respective priorities. A critical aspect of any RRM scheme is the ability to monitor resource ...

Keywords: Wi-Fi, radio resource management, traffic probe

9 Interference radius in PCS radio resource management simulations

Michael Liljenstam, Rassul Ayani

December 1998 **Proceedings of the 30th conference on Winter simulation**

Full text available: pdf(291.04 KB) Additional Information: full citation, references, citings, index terms

10 Radio resource management: On utility-based radio resource management with and without service guarantees

Leonardo Badia, Michele Zorzi

October 2004 **Proceedings of the 7th ACM international symposium on Modeling, analysis and simulation of wireless and mobile systems**

Full text available: pdf(183.63 KB) Additional Information: full citation, abstract, references, index terms

In this paper we discuss utility functions models to study Radio Resource Management. Our goal is to identify the characteristics of the wireless systems which make such theoretical models, though challenging, very useful, as they allow to quantify the Quality of Service and to analytically investigate the users' satisfaction. Moreover, we show how, within a utility-based framework, it is possible to also study economic issues, besides more conventional technical aspects such as throughput or sy ...

Keywords: rate allocation, service guarantees, utility functions

11 Scalable parallel simulations of wireless networks with WiPPET: modeling of radio propagation, mobility and protocols
O. E. Kelly, J. Lai, N. B. Mandayam, A. T. Ogielski, J. Panchal, R. D. Yates
September 2000 **Mobile Networks and Applications**, Volume 5 Issue 3

Full text available: pdf(175.62 KB) Additional Information: full citation, abstract, references, citings, index terms

We review the design, selected applications and performance of WiPPET (Wireless Propagation and Protocol Evaluation Testbed), a general parallel simulation testbed for various types of wireless networks. WiPPET has been written in TeD/C++, an object‐oriented modeling framework that isolates network modeling from the underlying parallel discrete event simulator. We describe the techniques for modeling radio propagation (long and short‐scale fading and ...

12 Special session on NOMADS: Model-based evaluation of a radio resource management system for wireless networks
Stefano Porcarelli, Felicita Di Giandomenico, Andrea Bondavalli, Paolo Lollini
April 2004 **Proceedings of the 1st conference on Computing frontiers**

Full text available: pdf(177.19 KB) Additional Information: full citation, abstract, references, index terms

This paper focuses on dependability analysis of an interoperable platform for radio resource management and mobility support in multiple radio environments. The emphasis is on reliability and availability issues, which unavoidably need to be addressed to some extent to cope with malfunctions in such complex environment. With reference to the European project CAUTION++, which aims to build a capacity and network management platform for increased utilization of present and future wireless systems, ...

Keywords: modeling, reliability, resource management system, stochastic activity networks, wireless networks

13 Radio resource management: Rate and power control on a reverse link for multi-cell mobile data networks
Wiklom Teerpabkajorndet, Prashant Krishnamurthy
October 2004 **Proceedings of the 7th ACM international symposium on Modeling, analysis and simulation of wireless and mobile systems**

Full text available: pdf(369.12 KB) Additional Information: full citation, abstract, references, index terms

Rate and power control are extremely important in determining the quality of service and radio resource utilization in mobile data networks. In the literature, the rate is assigned such that the system throughput is maximized and the transmit power at the mobile station (MS) is controlled in order to maintain a signal to interference ratio (SIR) that can provide a 1% frame error rate at the base station (BS). When the objective of radio resource allocation is the maximization of the system throu ...

Keywords: game theory, power control, radio resource management, rate control, wireless data networks

14 Partitioning WCN models for parallel simulation of radio resource management
Michael Liljenstam, Robert Rönngren, Rassul Ayani
May 2001 **Wireless Networks**, Volume 7 Issue 3

Additional Information: full citation, abstract, references, index terms

Parallel simulation techniques have been proposed as a possible solution to execution time and memory constraints often found in detailed simulations of Wireless Cellular Networks.

However, partitioning represents a major challenge for models that encompass elements of radio propagation phenomena. This paper discusses the partitioning problem with respect to Parallel Discrete Event Simulation and we formulate an approach to study partitioning of a WCN model that includes radio propagation. Vario ...

Keywords: Wireless Cellular Networks, parallel discrete event simulation, partitioning, personal communication systems, radio resource management

15 WiPPET, a virtual testbed for parallel simulations of wireless networks

Jignesh Panchal, Owen Kelly, Jie Lai, Narayan Mandayam, Andrew T. Ogielski, Roy Yates

July 1998 **ACM SIGSIM Simulation Digest , Proceedings of the twelfth workshop on Parallel and distributed simulation**, Volume 28 Issue 1

Full text available: pdf(971.79 KB) Publisher Site Additional Information: full citation, references, citings, index terms

16 Parallel simulations of wireless networks with TED: radio propagation, mobility and protocols

Jignesh Panchal, Owen Kelly, Jie Lai, Narayan Mandayam, Andarew T. Ogielski, Roy Yates

March 1998 **ACM SIGMETRICS Performance Evaluation Review**, Volume 25 Issue 4

Full text available: pdf(734.50 KB) Additional Information: full citation, abstract, citings, index terms

We describe the TeD/C++ implementation of *WiPPET*, a parallel simulation testbed for mobile wireless networks. In this article we emphasize the techniques for modeling of radio propagation (long- and short-scale fading and interference) and protocols for integrated radio resource management in mobile wireless voice networks. The testbed includes the standards-based AMPS, NA-TDMA and GSM protocols, and several research-oriented protocol families.

17 Mobile wireless networks: SMM: mathematical framework of a scalable mobility model

D R. Basgeet, P. Dugenie, A. Munro, D. Kaleshi, J. Irvine

September 2003 **Proceedings of the 6th ACM international workshop on Modeling analysis and simulation of wireless and mobile systems**

Full text available: pdf(326.04 KB) Additional Information: full citation, abstract, references, index terms

In this paper, we present a novel mathematical framework of a mobility model that can be applied to a large number of possible horizontal environments, ranging from local area networks (LANs) to wide area networks (WANs) for the prediction and tracking of mobile users. This new mobility model, termed 'Scalable Mobility Model' (SMM), provides a realistic set of paths for both individual and aggregate subscriber movement by assigning mobile users into specific classes of mobility based on their mo ...

Keywords: cellular planning and deployment, mobile networks, mobility management, mobility models, radio resource management

18 Traffic and interference adaptive scheduling for internet traffic in UMTS

Marco Conti, Enrico Gregori

August 2004 **Mobile Networks and Applications**, Volume 9 Issue 4

Full text available: pdf(316.53 KB) Additional Information: full citation, abstract, references, index terms

In this paper we propose a scheduling strategy for the radio resources management when transmitting Internet traffic over third-generation systems. More precisely, we consider the UMTS Terrestrial Radio Access Network (UTRAN) Time Division Duplex (TDD) mode

standardized by ETSI. UTRAN TDD uses a hybrid solution of code and time division multiple access, called TD-CDMA. In UMTS systems a key issue in developing access methodologies for the available spectrum is an optimal management of the rare r ...

Keywords: UMTS, UTRA-TDD, internet traffic, scheduling

19 System and process modelling for design, management and performance evaluation of present and future mobile networks
Cesare Mossotto
July 2001 **Proceedings of the 4th ACM international workshop on Modeling, analysis and simulation of wireless and mobile systems**
Full text available: pdf(352.00 KB) Additional Information: full citation, index terms

20 Cellular networks: past, present and future
Lourens O. Walters, P. S. Kritzinger
December 2000 **Crossroads**, Volume 7 Issue 2
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Magnusson, P.; Lundsjo, J.; Sachs, J.; Wallentin, P.;
Global Telecommunications Conference, 2004. GLOBECOM '04. IEEE
Volume 6, 29 Nov.-3 Dec. 2004 Page(s):3472 - 3477 Vol.6
Digital Object Identifier 10.1109/GLOCOM.2004.1379012
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Xiang Duan; Zhisheng Niu; Junli Zheng;
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Volume 1, 17-21 Nov. 2002 Page(s):804 - 808 vol.1
AbstractPlus | Full Text: PDF(382 KB) **IEEE CNF**

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Chen Nee Chuah; Yates, R.D.; Goodman, D.J.;
Vehicular Technology Conference, 1995 IEEE 45th
Volume 2, 25-28 July 1995 Page(s):584 - 588 vol.2
Digital Object Identifier 10.1109/VETEC.1995.504935
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4. **Adaptive radio resource management based on cell load in CDMA-based structure**
Taesoo Kwon; Dong-Ho Cho;
Vehicular Technology Conference, 2002. Proceedings. VTC 2002-Fall. 2002 IE
Volume 4, 24-28 Sept. 2002 Page(s):2337 - 2341 vol.4
Digital Object Identifier 10.1109/VETECF.2002.1040638
AbstractPlus | Full Text: PDF(345 KB) **IEEE CNF**

5. **Radio resource management in wireless LANs**
Hills, A.; Friday, B.;
Communications Magazine, IEEE
Volume 42, Issue 12, Dec. 2004 Page(s):S9 - 14
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AbstractPlus | References | Full Text: PDF(367 KB) **IEEE JNL**

6. **Pricing and power control for joint network-centric and user-centric radic**